

Amendments to the Claims

Claims 1-29 (Cancelled).

30. (New) A method for analyzing a scalability of an application server, comprising:

providing a test configuration, wherein the test configuration includes a component quantity generated using a component template, a node quantity, a server quantity, a resource quantity, and resource types;

creating an application based on the test configuration, wherein the application includes a quantity of components that match the provided component quantity;

deploying, installing, and starting the application on the application server, wherein the application server is implemented on a node, comprising a computerized device, that is part of a hierarchy of nodes that match the provided node quantity, and wherein the application is deployed using a deploy tool of the application server;

creating a client program based on the test configuration, wherein the client program simulates use of the application by a quantity of clients that match the provided component quantity;

running the client program against the application by conducting a database transaction;

monitoring performance metrics during the deploying, installing, starting

and running steps to verify the scalability of the application server, the monitoring comprising monitoring of:

deployment metrics selected from the group consisting of an enterprise archive file size, a heap size, a memory consumption, a processor usage, and an application deploy time during the deploying step;

monitoring installation metrics selected from the group consisting of a memory consumption, a processor usage, and an application install time during the installing step;

monitoring start metrics selected from the group consisting of a memory increase, a processor usage, and an application start time during the starting step; and

monitoring client metrics selected from the group consisting of a memory consumption, a processor usage, a transaction time, and an application run time during the running step;

and

generating output based on the performance metrics, wherein the output illustrates the performance metrics for the provided component quantity versus a potential performance for the application with a different quantity of components.

31. (New) A system for analyzing a scalability of an application server, comprising:

at least one computer including:

a test configuration system for providing a test configuration, wherein the test configuration includes a component quantity generated using a component template, a node quantity, a server quantity, a resource quantity, and resource types, and wherein the test configuration system provides a graphical user interface for inputting the test configuration;

an application generation system for creating an application based on the test configuration, wherein the application includes a quantity of components that match the provided component quantity, wherein the application is deployed, installed and started on the application server, and wherein the application server is implemented on a node, comprising a computerized device, that is part of a hierarchy of nodes that match the provided node quantity, and wherein the application is deployed using a deploy tool of the application server;

a client program system for creating a client program based on the test configuration, and for running the client program against the application by conducting a database transaction, wherein the client program simulates use of the application by a quantity of clients that match the provided component count;

a metric monitoring system for monitoring performance metrics while the application is deployed, installed, and started and when the client program is run to verify the scalability of the application server, wherein the metric monitoring system monitors:

deployment metrics selected from the group consisting of an enterprise archive file size, a heap size, a memory consumption, a processor usage, and an application deploy time as the application is being deployed;

installation metrics selected from the group consisting of a memory consumption, a processor usage, and an application install time as the application is being installed;

start metrics selected from the group consisting of a memory increase, a processor usage, and an application start time as the application is being started; and

client metrics selected from the group consisting of a memory consumption, a processor usage, a transaction time, and an application run time as the client program runs;

and

an output system for generating output based on the performance metrics, wherein the output illustrates the performance metrics for the provided component quantity versus a potential performance for the application with a different quantity of components.

32. (New) A program product stored on a recordable medium, which when executed, analyzes a scalability of an application server, the program product comprising program code for:

- providing a test configuration, wherein the test configuration includes a component quantity generated using a component template, a node quantity, a server quantity, a resource quantity, and resource types;

- creating an application based on the test configuration, wherein the application includes a quantity of components that match the provided component quantity;

- deploying, installing, and starting the application on the application server, wherein the application server is implemented on a node, comprising a computerized device, that is part of a hierarchy of nodes that match the provided node quantity, and wherein the application is deployed using a deploy tool of the application server;

- creating a client program based on the test configuration, wherein the client program simulates use of the application by a quantity of clients that match the provided component quantity;

- running the client program against the application by conducting a database transaction;

- monitoring performance metrics during the deploying, installing, starting and running steps to verify the scalability of the application server, the monitoring comprising monitoring of:

 - deployment metrics selected from the group consisting of an

enterprise archive file size, a heap size, a memory consumption, a processor usage, and an application deploy time during the deploying step;

monitoring installation metrics selected from the group consisting of a memory consumption, a processor usage, and an application install time during the installing step;

monitoring start metrics selected from the group consisting of a memory increase, a processor usage, and an application start time during the starting step; and

monitoring client metrics selected from the group consisting of a memory consumption, a processor usage, a transaction time, and an application run time during the running step;

and

generating output based on the performance metrics, wherein the output illustrates the performance metrics for the provided component quantity versus a potential performance for the application with a different quantity of components.